IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (original): Rotor for cooling pumps comprising a core to be assembled on a shaft connected with engine means and a body, fitted in the said core, provided with a plurality of radial tabs of flexible material, characterized in that said core and said body with said tabs are both of a material like the rubber, but with different hardness.

Claim 2 (original): Rotor for cooling pumps according to claim 1, characterized in that said core is made of a mixture of neoprene, nitrile, PVC and aramidic fiber.

Claim 3 (original): Rotor according to claim 2, characterized in that said aramidic fiber is Kevlar®.

Claim 4 (original): Rotor according to claim 2, characterized in that said core is made of a mixture comprising:

Polychloroprene	30% to 50%
Acrylonitrile + PVC	50% to 80%
Aramidic Fiber	30% to 50%
Silica	30% to 50%
Resin	30% to 50%
Zinc oxide	30% to 50%
Sulphur	30% to 50%

the said percentages being expressed in weight.

Claim 5 (original): Rotor according to claim 4, characterized in that said core is made of a mixture comprising:

Polychloroprene	25%
Acrylonitrile + PVC	25%
Aramidic Fiber	3%
Silica	13,4%
Resin	23%
Zinc oxide	3,5%
Sulphur	7,1%

the said percentages being expressed in weight.

Claim 6 (currently amended): Process for the manufacture of rotors for cooling pumps according to ~~any of the previous claims~~ claim 5, characterized in that the following phases are provided for:

- injection of the material addressed to realize the core inside a mould, into which a punch is inserted having the same form of the shaft onto which the rotor has to be assembled;
- once the consolidation has taken place, the core is extracted, cooled and then inserted into a second mould, always mounting it on a support having the same sizes of the pump shaft;
- injection of the material which forms the body with the tabs.

Claim 7 (original): Process for the manufacture of rotors for cooling pumps

according to claim 5, characterized in that it provides, after the core extraction from the first mould and before the following introduction of the core into the second mould, for a dressing phase with an adhering chemical agent.

Claim 8 (currently amended): Process for the manufacture of rotors for cooling pumps according to claim [[5 or]] 6, characterized in that said core and said body with said tabs are both of a material like the rubber, but with different hardness.